

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) An information display device comprising:
an image display member which displays images; and
a prism having at least two reflecting surfaces arranged ~~in~~ facing each other, and a plane hologram surface formed of a reflection-type hologram, and at least one of the two reflecting surfaces arranged ~~in~~ facing each other is a light-beam-selective surface which selectively transmits or reflects light,

wherein an image light beam that corresponds to image information and that exits from the image display member is reflected between the two reflecting surfaces arranged ~~in~~ facing each other, and is diffractively reflected on the hologram surface, and then, after being transmitted through the light-beam-selective surface, is directed to an observer's ~~pupil~~ pupil, and

wherein the hologram has optical power for projecting an image on an observer's pupil, while enlarging it.

2. (Original) An information display device as claimed in claim 1,
wherein the hologram is a volume hologram.

3. (Original) An information display device as claimed in claim 1,
wherein the hologram is a phase hologram.

4. (Cancelled)

5. (Original) An information display device as claimed in claim 1,
wherein the hologram has a diffractive reflection angle wider than a regular reflection angle observed on the hologram surface.

6. (Currently Amended) An information display device comprising:
an image display member which displays images; and
a prism having at least two reflecting surfaces arranged facing each other, and a plane hologram surface formed of a reflection-type hologram, and at least one of the two

reflecting surfaces arranged facing each other is a light-beam-selective surface which selectively transmits or reflects light,

wherein an image light beam that corresponds to image information and that exits from the image display member is reflected between the two reflecting surfaces arranged facing each other, and is diffractively reflected on the hologram surface, and then, after being transmitted through the light-beam-selective surface, is directed to an observer's pupil, and

~~An information display device as claimed in claim 1,~~

wherein the reflecting surfaces arranged ~~in~~ facing each other have an inclination opening toward the incident side of a prism of the image light beam.

7. (Original) An information display device as claimed in claim 1, further comprising

a deflection correction member for correcting deflection of external light that is transmitted through a prism.

8. (Original) An information display device as claimed in claim 7,

wherein the deflection correction member is attached to the prism and has surfaces on the same surfaces of the reflecting surfaces arranged ~~in~~ facing each other.

9. (Currently Amended) An information display device as claimed in claim 1,

wherein the reflecting surfaces arranged ~~in~~ facing each other are substantially parallel to each other.

10. (Currently Amended) An information display device as claimed in claim 1,

wherein reflection occurring between the reflecting surfaces arranged ~~in~~ facing each other is total reflection.

11. (Cancelled)

12. (Currently Amended) An information display device comprising:

an image display member which displays images; and

a prism having at least two reflecting surfaces arranged facing each other, and a plane hologram surface formed of a reflection-type hologram, and at least one of the two reflecting surfaces arranged facing each other is a light-beam-selective surface which selectively transmits or reflects light,

wherein an image light beam that corresponds to image information and that exits from the image display member is reflected between the two reflecting surfaces arranged facing each other, and is diffractively reflected on the hologram surface, and then, after being transmitted through the light-beam-selective surface, is directed to an observer's pupil, and

~~An information display device as claimed in claim 1,~~

wherein at least one of the two reflecting surfaces arranged ~~in~~ facing each other is a curved surface.

13. (Currently Amended) An information display device comprising:

a first image display member for displaying a first image;

a first prism having at least two reflecting surfaces arranged ~~in~~ facing each other and another reflecting surface, and at least one of the two reflecting surfaces arranged ~~in~~ facing each other is a light-beam-selective surface which selectively transmits or reflects light;

a second image display member for displaying a second image; and

a second prism having the same construction as the first prism,

wherein an image light beam corresponding to the information of the first image exiting from the first image display member is reflected between the two reflecting surfaces of the first prism arranged ~~in~~ facing each other, and is reflected on another reflecting surface of the first prism, and then, after being transmitted through the light-beam-selective surface, is directed to an observer's pupil, on the other hand, an image light beam corresponding to the information of the second image exiting from the second image display member is reflected between the two reflecting surfaces of the second prism arranged ~~in~~ facing each other, and is reflected on another reflecting surface, and then is, after being transmitted through the light-beam-selective surface, directed to the same observer's pupil as the light beam of the first image.

14. (Original) An information display device as claimed in claim 13, wherein the another reflecting surface has optical power for projecting an image on an observer's pupil, while enlarging it.

15. (Original) An information display device as claimed in claim 13, wherein the another reflecting surface has an angle inclined to the incidental side of the prism of the image light beam.

16. (Previously Amended) An information display device as claimed in claim 13, wherein the first image display member and the second image display member are connected to each other.

17. (Original) An information display device as claimed in claim 13, further comprising:
a deflection correction member for correcting deflection of external light that is transmitted through the prism.

18. (Original) An information display device as claimed in claim 13, wherein the another reflecting surface is a hologram surface formed of a reflection-type hologram.

19. (Original) An information display device as claimed in claim 18, wherein the hologram is a volume hologram.

20. (Original) An information display device as claimed in claim 18, wherein the hologram is a phase hologram.

21. (Original) An information display device as claimed in claim 18, wherein the hologram has optical power for projecting an image on an observer's pupil, while enlarging it.

22. (Original) An information display device as claimed in claim 18, wherein the hologram has a diffractive reflection angle wider than a regular reflection angle observed on the hologram surface.

23. (Currently Amended) An information display device as claimed in claim 13, wherein the reflecting surfaces arranged ~~in~~ facing each other ~~has~~have an inclination opening toward the incident side of the prism of the image light beam.

24. (Original) An information display device as claimed in claim 13, further comprising a deflection correction member for correcting deflection of external light that is transmitted through the prism.

25. (Currently Amended) An information display device as claimed in claim 13, wherein the reflecting surfaces arranged ~~in~~ facing each other are substantially parallel to each other.

26. (Currently Amended) An information display device as claimed in claim 13, wherein reflection occurring between the reflecting surfaces arranged ~~in~~ facing each other is total reflection.

27. (Currently Amended) An information display device as claimed in claim 13, wherein at least one of the two reflecting surfaces arranged ~~in~~ facing each other is a curved surface.

28. (Currently Amended) An optical element comprising:

two reflecting surfaces arranged ~~in~~ facing each other, and at least one of the two reflecting surfaces is a light-beam-selective surface that selectively transmits or reflects light; and

a plane hologram surface formed of a reflection-type hologram, the hologram having positive optical power,

wherein light entering the optical element is reflected on the two reflecting surfaces, and after being reflected on the hologram surface is transmitted through the light-beam-selective surface and then exits therefrom.

29. (Cancelled).

30. (Original) An optical element as claimed in claim 28, wherein the optical element is a prism.

31. (Cancelled)

32. (Currently Amended) An optical element comprising:

a first prism having at least two reflecting surfaces arranged ~~in~~ facing each other and a hologram surface formed of a reflection-type hologram, and at least one of the two reflecting surfaces arranged ~~in~~ facing each other is a light-beam-selective surface which selectively transmits or reflects light; and

a second prism having the same construction as the first prism,

wherein a first image light beam is reflected between the two reflecting surfaces of the first prism arranged ~~in~~ facing each other, and is reflected on the hologram surface of the first prism, and then, after being transmitted through the light-beam-selective surface, is directed to an observer's pupil, on the other hand, a second image light beam is reflected between the two reflecting surfaces of the second prism arranged ~~in~~ facing each other, and is reflected on the hologram surface of the second prism, and then is, after being transmitted through the light-beam-selective surface, directed to the same observer's pupil as the light beam of the first image.